

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKNDE1-RD4FMWSO-FACY2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Thu May 12 2016

[UPDATE] Thu Jun 9 2016

[TEST] SP-00480\_11\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-ND-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Narrow Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.50
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8702	9032	8989
55	6944	6896	6890
65	5533	5531	5539
75	4659	4673	4648
85	3796	3949	3820

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	4396.736	4396.736	4396.736	4396.736	4396.736
<b>5</b>	4043.087	4096.388	4092.855	4089.468	4083.488
<b>10</b>	3377.036	3397.192	3403.790	3415.427	3411.125
<b>15</b>	2280.351	2261.493	2286.075	2278.293	2276.439
<b>20</b>	1067.437	1079.708	1073.199	1081.511	1070.310
<b>25</b>	406.846	403.106	406.893	406.763	399.360
<b>30</b>	183.326	185.207	184.880	185.680	186.916
<b>35</b>	115.568	118.721	114.539	118.051	120.134
<b>40</b>	94.071	93.541	95.084	94.637	94.014
<b>45</b>	81.723	83.156	84.819	82.808	84.414
<b>50</b>	72.117	72.605	70.844	71.322	69.551
<b>55</b>	61.711	61.343	61.280	60.615	61.223
<b>60</b>	51.576	52.298	52.859	51.955	50.656
<b>65</b>	44.885	44.589	44.869	44.687	44.932
<b>70</b>	39.316	38.838	39.295	38.905	38.511
<b>75</b>	33.035	33.196	33.134	32.988	32.957
<b>80</b>	27.378	27.835	28.474	28.079	27.310
<b>85</b>	22.219	22.255	23.118	21.902	22.364
<b>90</b>	20.110	19.149	18.811	19.019	20.489

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Zone	Lumens	%Lamp	%Fixt
0-20	982.37	N.A.	64.80
0-30	1212.37	N.A.	79.90
0-40	1292.22	N.A.	85.20
0-60	1411.44	N.A.	93.10
0-80	1491.34	N.A.	98.30
0-90	1516.44	N.A.	100.00
10-90	1147.16	N.A.	75.60
20-40	309.85	N.A.	20.40
20-50	374.06	N.A.	24.70
40-70	163.96	N.A.	10.80
60-80	79.91	N.A.	5.30
70-80	35.16	N.A.	2.30
80-90	25.10	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1516.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	369.28
10-20	613.10
20-30	230.00
30-40	79.85
40-50	64.21
50-60	55.00
60-70	44.74
70-80	35.16
80-90	25.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKNDE1-RD4FMWSO-FACY2.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

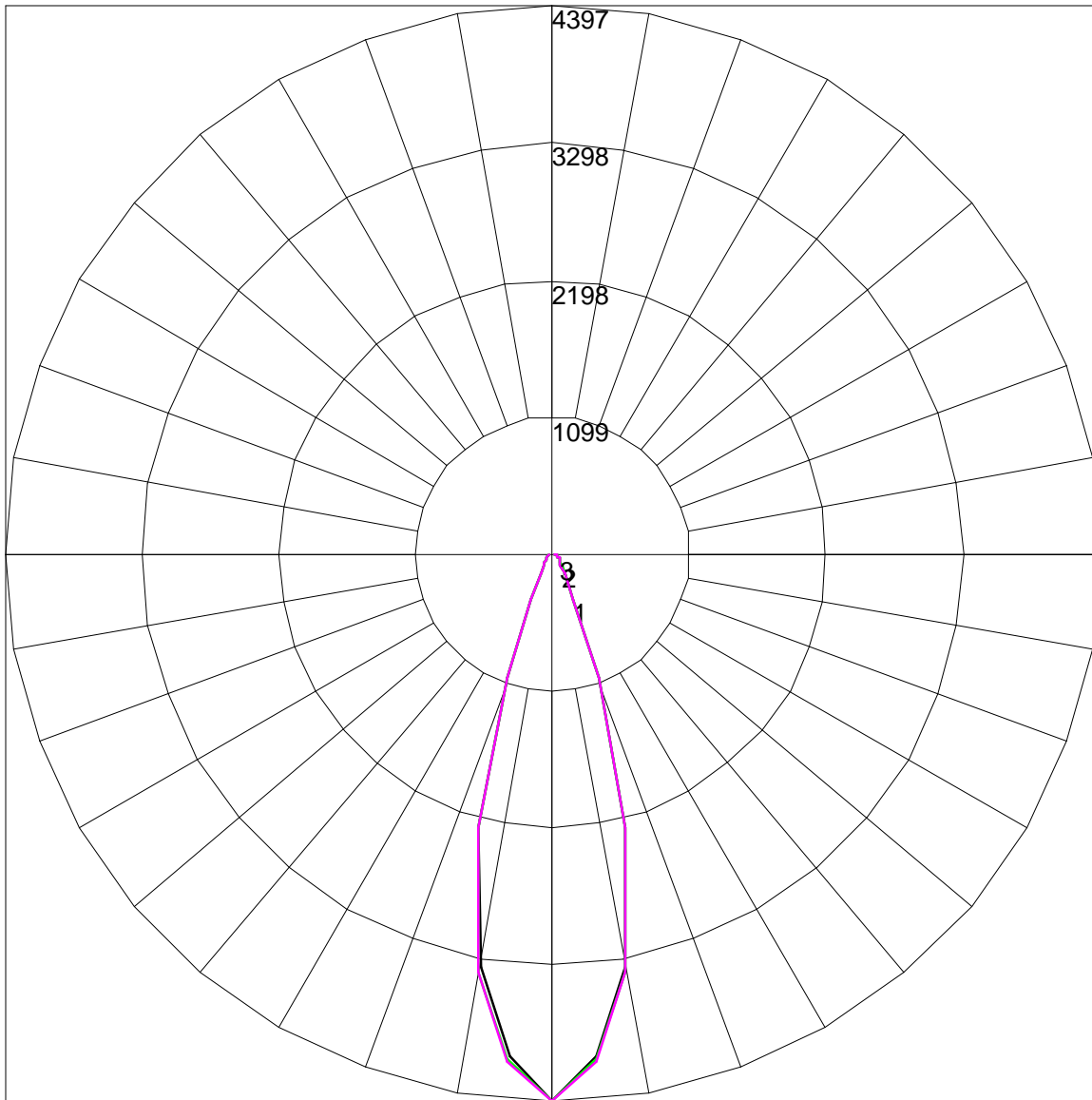
Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : RDF04LEDXT-20LXXKNDE1-RD4FMWSO-FACY2.IES

## POLAR GRAPH



Maximum Candela = 4396.736 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)